

**Title:** Installation of Truck Scales and Landfill Permit Modification

**Installation:** Redstone Arsenal, Alabama

**POC:** Ken Hewitt, REM, (256) 955-7110

**Mission Benefits:** Both truck scales provide the Garrison with accurate waste disposal and records keeping at the Redstone Landfill for monitoring state-permitted landfill space and OB/OD Grounds activities. Also, the truck scales are used in support of the Garrison QRP to weigh recyclables for legal public commerce.

**Cost Benefits:** Earn about \$40,000 per year through direct sale from certified weight of concrete, scrap steel, cardboard, used toner cartridges, paper, and aluminum.

**Environmental Benefits:** Protect the environment by accurately measuring landfill load-rates and estimating soil cover to limit surface water runoff.



Photo by Ken Hewitt

The 11'x 70' Emery Winslow Genesis II Truck Scale and Control Building at the Redstone Landfill

**Description:** Two truck scale installations were completed during the 2<sup>nd</sup> quarter of FY 04 and the existing landfill permit was modified. An 11'x 70' and 11' x 50' truck scale was constructed at the Redstone construction/demolition landfill and at the support area to the Open Burn/Open Detonation Area, respectively. Both scales are rated for 100 tons. They were manufactured by the Emery Winslow Scale Company and feature a hydrostatic load cell technology. The Genesis II is a low profile scale and reinforced concrete deck with a lifetime guarantee on the load cells against water and lightning damage. The scale is teamed with a totalizer and networked personal computer that uses customized landfill operations software to meet the requirements of the Garrison Regulation 200-7, Land Use Control, Integrated Solid Waste Management Plan, and Qualified Recycling Program.

The existing landfill permit was modified to reflect the change in determining the landfill design capacity, daily load rate, "life expectancy", and estimated closure date. The permit had to be changed from reporting cubic yard estimates to actual disposal tonnage.

**Cost:** \$80,000

**Regulatory Drivers:** ADEM Permit 45-3, Garrison Regulation 200-7, Executive Order 13101; Department of Defense Measure of Merit Goal.

#### **Lessons Learned:**

1. Better allocation of landfill and OB/OD Grounds costs can be obtained using actual weight versus estimated volume.
2. Constructing scales near permitted facilities reduces operational costs.

#### **Point of Contact:**

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